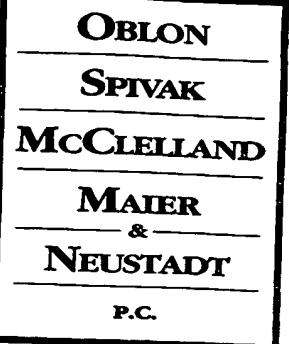


Rec'd PCT/PTO 18 JAN 2005



January 18, 2005

UNITED STATES PATENT AND TRADEMARK OFFICE  
Box 16  
Washington, DC 20231

ATTORNEYS AT LAW  
KATHLEEN A. MORSBERGER  
CONTROLLER  
(703) 412-6494  
KMORSBERGER@OBLON.COM

Attn: Frank Lebron  
Refund Department

Re: Deposit Account #150030

Dear Mr. Lebron:

Enclosed is a copy of a portion of our Deposit Account Statement of December, 2004. Please review the highlighted charge on **Serial Number 10/500,891 in the amount of \$86.00 on fee code #1614.**

An American Express charge for \$1,422.00 was included with the filing of this application. This payment included \$430.00 for 5 additional independent claims. A preliminary amendment was filed with the reissue application, which eliminated the multiple dependencies but still only contained 8 independent claims (see attached claim chart). Please note that although claims 16 and 24 appear to be independent claims, there is a reference to another claim toward the end of the claim language. Therefore, no additional fees are due.

Please investigate this charge and kindly refund \$86.00 to Deposit Account #150030. Copies of the appropriate paperwork are attached. If you have questions, please do not hesitate to contact me. My phone number is 703-412-6296.

Sincerely,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

A handwritten signature in black ink, appearing to read 'Debra J. Noel'.

Adjustment date: 05/18/2005 RWHITE1  
12/03/2004 AJOHNS02 00000004 150030 10500891  
86.00 CR  
86.00 C:1614

Debra J. Noel  
Accounting Department

Enclosures



United States  
Patent and  
Trademark Office

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**Deposit Account Statement**

**Requested Statement Month:**

December 2004

**Deposit Account Number:**

150030

**Name:**

NORMAN F. OBLON

**Attention:**

**Address:**

1940 DUKE STREET

**City:**

ALEXANDRIA

**State:**

VA

**Zip:**

22314

DATE SEQ	POSTING REF TXT	ATTORNEY DOCKET NBR	FEE CODE	AMT	BAL
12/01 3	10256081	228407US0	1202	\$54.00	\$34,159.71
12/01 5	09591789	260895US96	8021	\$40.00	\$34,119.71
12/01 11	09512735	0059-1196-2D	1460	-\$130.00	\$34,249.71
12/01 32	10937852	257598US0COUNT	1202	\$36.00	\$34,213.71
12/02 1	10901264	251752US0CONT	1806	\$180.00	\$34,033.71
12/02 6	10330120	232209US0SHB	1806	\$180.00	\$33,853.71
12/02 11	10660635	242829US90	1254	\$1,530.00	\$32,323.71
12/02 202	0147750983	241119TW/TEP/FF	8014	\$25.00	\$32,298.71
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12/03 5	10500891	255062US0PCT	1614	\$86.00	\$32,192.71
12/03 32	11001319	262548US6	1202	\$18.00	\$32,174.71
12/03 33	11001319	262548US6	1203	\$300.00	\$31,874.71
12/03 191	10831363	252483US0CONT	1001	\$150.00	\$31,724.71
12/06 1	10031339	217926US0PCT	1460	\$130.00	\$31,594.71
12/06 2	10269044	10269044 227312US	1806	\$180.00	\$31,414.71
12/06 3	10204426	227573US	9204	-\$280.00	\$31,694.71
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12/06 56	10717663	245871US/KQU	1202	\$18.00	\$31,568.71
12/06 153	08719891	N00037006 253529US	1462	\$270.00	\$31,298.71
12/07 1	09949120	213751US0SRD	1202	\$162.00	\$31,136.71
12/07 3	09969758	214757US0	1202	\$90.00	\$31,046.71
12/07 9	10498214	254412US0PCT	1615	\$324.00	\$30,722.71
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12/07 167	10740428	247077US/KQU	8007	\$100.00	\$30,517.71
12/08 3	09647907	10939/1000	1202	\$18.00	\$30,499.71
12/08 4	10244008	21581-280-US	1806	\$180.00	\$30,319.71
12/08 8	60606884	258374US0PROV	1807	\$50.00	\$30,269.71

Due Date July 9, 2004

OSMM&N File No. 255062US0PCT

By NFO/dty/FF

Serial No. New U.S. PCT Application based on PCT/FR03/00129

In the matter of the Application of Joel COTTON, et al.

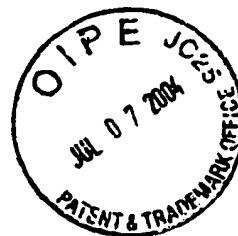
For PHOSPHINIC PSEUDOPEPTIDE DERIVATIVES FOR THE SELECTIVE  
INHIBITION OF THE C-TERMINAL ACTIVE SITE OF ANGIOTENSIN I  
CONVERTING ENZYME (ACE)

The following has been received in the U.S. Patent Office on the date stamped hereon:

- 61 pgs. Specification 17 Claims (English Translation) pgs. Sequence Listing
- Combined Declaration, Petition & Power of Attorney (3 pages)
- Application Data Sheet
- Notice of Priority
- Dep. Acct. Order Form
- Credit Card Payment Form for \$1,422.00
- Drawings (3 sheets)
- PCT Transmittal Letter
- Preliminary Amendment
- PCT/IB/304
- PCT/IB/308
- International Search Report
- Request for Consideration of Documents Cited in International Search Report

SERIAL NO. \_\_\_\_\_

DATE RECEIVED \_\_\_\_\_



JB

TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371

255062US0PCT

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

INTERNATIONAL APPLICATION NO.  
PCT/FR03/00129INTERNATIONAL FILING DATE  
16 JANUARY 2003PRIORITY DATE CLAIMED  
18 JANUARY 2002

## TITLE OF INVENTION

**PHOSPHINIC PSEUDOPEPTIDE DERIVATIVES FOR THE SELECTIVE INHIBITION OF THE C-TERMINAL ACTIVE SITE OF ANGIOTENSIN I CONVERTING ENZYME (ACE)**

## APPLICANT(S) FOR DO/EO/US

Joel COTTON, et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1.  This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2.  This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3.  This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4.  The US has been elected by the expiration of 19 months from the priority date (Article 31).
5.  A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
  - a.  is attached hereto (required only if not communicated by the International Bureau).
  - b.  has been communicated by the International Bureau.
  - c.  is not required, as the application was filed in the United States Receiving Office (RO/US).
6.  An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a.  is attached hereto.
  - b.  has been previously submitted under 35 U.S.C. 154(d)(4).
7.  Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a.  are attached hereto (required only if not communicated by the International Bureau).
  - b.  have been communicated by the International Bureau.
  - c.  have not been made; however, the time limit for making such amendments has NOT expired.
  - d.  have not been made and will not be made.
8.  An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9.  An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10.  An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11.  A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12.  A copy of the International Search Report (PCT/ISA/210).

## Items 13 to 20 below concern document(s) or information included:

13.  An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14.  An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15.  A **FIRST** preliminary amendment.
16.  A **SECOND** or **SUBSEQUENT** preliminary amendment.
17.  A substitute specification.
18.  A change of power of attorney and/or address letter.
19.  A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
20.  A second copy of the published international application under 35 U.S.C. 154(d)(4).
21.  A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
22.  Express Mail Label No.
23.  Other items or information:

Application Data Sheet  
Notice of PriorityPCT/IB/304  
PCT/IB/308Request for Consideration of Documents Cited in International Search Report  
Drawings (3 Sheets)

U.S. APPLICATION NO. (IF KNOWN, SEE:

R

INTERNATIONAL APPLICATION NO.

PCT/FR03/00129

ATTORNEY'S DOCKET NUMBER

255062US0PCT

## 24. The following fees are submitted:

## BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):

<input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO .....	\$1080.00
<input checked="" type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO .....	\$920.00
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO .....	\$770.00
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) .....	\$730.00
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) .....	\$100.00

ENTER APPROPRIATE BASIC FEE AMOUNT =

\$920.00

Surcharge of \$130.00 for furnishing the oath or declaration later than  20  30 months from the earliest claimed priority date (37 CFR 1.492 (e)).

\$0.00

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	
Total claims	24 - 20 =	4	x \$18.00	\$72.00
Independent claims	8 - 3 =	5	x \$86.00	\$430.00
Multiple Dependent Claims (check if applicable).			<input type="checkbox"/>	\$0.00
			TOTAL OF ABOVE CALCULATIONS =	\$1,422.00
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$0.00
			SUBTOTAL =	\$1,422.00
Processing fee of \$130.00 for furnishing the English translation later than months from the earliest claimed priority date (37 CFR 1.492 (f)).			<input type="checkbox"/> 20 <input type="checkbox"/> 30 +	\$0.00
			TOTAL NATIONAL FEE =	\$1,422.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable).			<input type="checkbox"/>	\$0.00
			TOTAL FEES ENCLOSED =	\$1,422.00
			Amount to be: refunded	\$
			charged	\$

- A check in the amount of \_\_\_\_\_ to cover the above fees is enclosed.
- Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \_\_\_\_\_ to cover the above fees.
- The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 15-0030
- Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

Telephone No.: 703-413-3000

Fax No.: 703-413-2220

Customer Number: 22850

SIGNATURE

Norman F. Oblon

NAME

24,618

REGISTRATION NUMBER

DATE

United States Patent & Trademark Office; U.S. DEPARTMENT OF COMMERCE  
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**Credit Card Information**

Credit Card Type:  American Express

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Credit Card Expiration Date: December 31, 2005

Name as it Appears on Credit Card: Tyson, Derrick L

Payment Amount: \$(US Dollars): 1,422.00

Signature:

Date: July 6, 2004

The Commissioner is hereby authorized to charge any additional fees which may be required for the papers being filed herewith and for which no credit card payment can be processed, or credit any overpayment to Deposit Account No. 15-0030.

**Credit Card Billing Address**

Street Address 1: Oblon, Spivak, McClelland, Maier & Neustadt, P.C.

Street Address 2: 1940 Duke Street

City: Alexandria

State: Virginia

Zip/Postal Code: 22314

Country: U.S.A.

Daytime Phone #: (703) 413-3000 Accounting Dept.

Fax #: (703) 413-2220

**Request and Payment Information**

Description of Request and Payment Information:

NEW U.S. PCT APPLN.

Application No.:

Patent/Registration No.:

Docket No.: 255062US

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CLAIM CALCULATION SHEET

INTERNATIONAL PCT NO:

DOCKET NO:

CLAIM	INTERNATIONAL PCT APPLICATION AS FILED		AFTER AMENDMENT IN INTERNATIONAL PHASE		AFTER PRELIMINARY AMENDMENT		AFTER 1 <sup>ST</sup> AMENDMENT	
	IND.	DEP.	IND.	DEP.	IND.	DEP.	IND.	DEP.
1								
2								
3								
4		3						
5		①						
6		①						
7		①						
8		④ 1						
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19								
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26								

TOTAL  
IND. \_\_\_\_\_

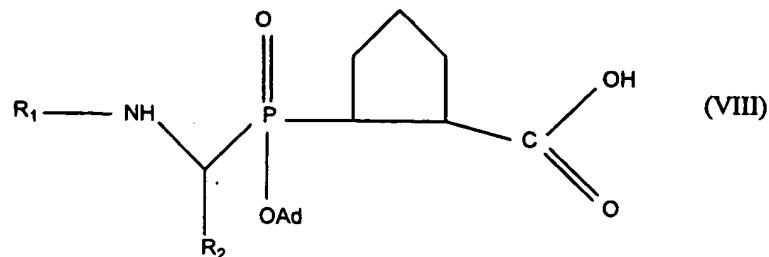
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TOTAL  
DEP. \_\_\_\_\_

16

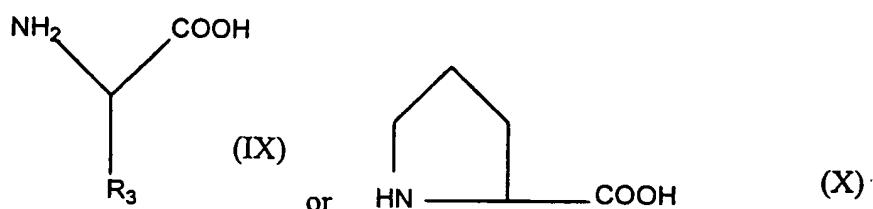
TOTAL  
\_\_\_\_\_

511



5) coupling the compound of formula (VIII) with the amino acid of formula (IX)

or (X):

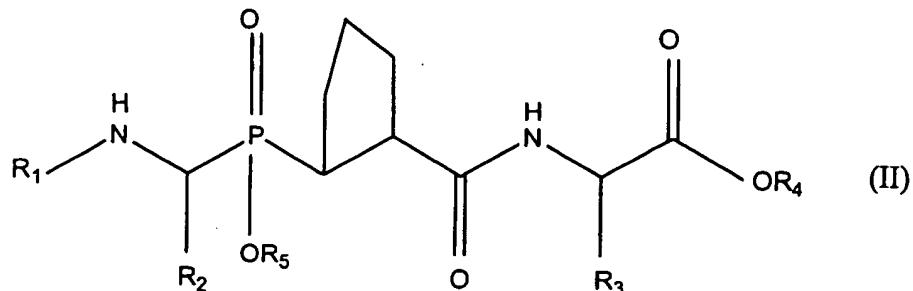


in which R<sub>3</sub> is as defined above, and

6) removing the protecting group Ad.

Claim 15 (Currently Amended): Process according to A process as claimed in Claim 14, in which wherein the peptide coupling step 5) is performed via solid-phase peptide synthesis using as wherein the solid phase is a resin substituted with the amino acid of formula (IX) or (X).

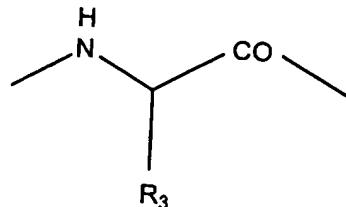
Claim 16 (Currently Amended): A process Process for preparing a pseudopeptide of formula:



in which: wherein,

-  $R_1$  represents a protecting group for an amine function, or an amino acid or a peptide protected with a protecting group for an amine function,

-  $R_2$  and  $R_3$ , which may be identical or different, represent the side chain of a natural or unnatural amino acid, the sequence:



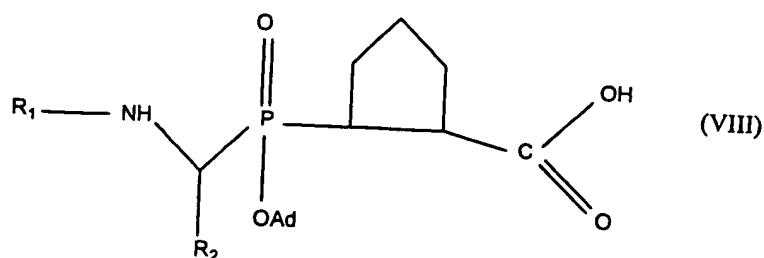
also possibly forming the Pro residue,

-  $R_4$  represents a hydrogen atom, and

-  $R_5$  represents a group capable of forming that can form an *in vivo* hydrolysable phosphinic ester;

in which wherein the phosphinic function of the pseudopeptide obtained via the process of Claim 14 or 15 is esterified by coupling with an alcohol of formula  $R_5OH$  or by reaction with a halide of formula  $R_5X$  in which  $X$  represents a halogen atom.

Claim 17 (Currently Amended): A compound Compound of formula (VIII):



wherein in which:

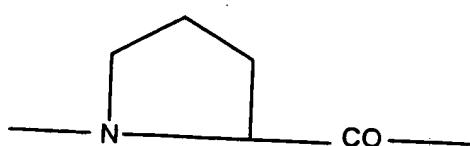
-  $R_1$  represents a protecting group for an amine function or an amino acid or a peptide protected with an amine function, and

-  $R_2$  represents the side chain of a natural or unnatural amino acid.

Claim 18 (New): The method of Claim 2, wherein R<sub>2</sub> represents the benzyl, methyl or phenylethyl group.

Claim 19 (New): The method of Claim 2, wherein R<sub>3</sub> represents the side chain of alanine, arginine or tryptophan.

Claim 20 (New): The method of Claim 2, wherein the sequence -NH-CH(R<sub>3</sub>)-CO- forms the Pro residue:

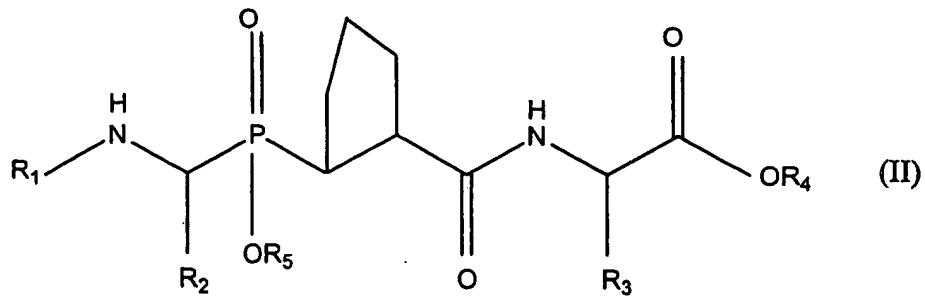


Claim 21 (New): The method of Claim 2, wherein R<sub>4</sub> and/or R<sub>5</sub> represent(s) a hydrogen atom.

Claim 22 (New): A pharmaceutical composition comprising at least one phosphinic pseudopeptide derivative as claimed in Claim 10.

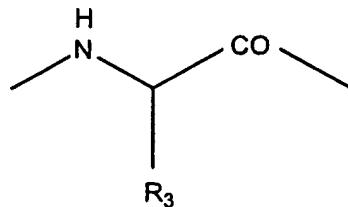
Claim 23 (New): A pharmaceutical composition comprising at least one phosphinic pseudopeptide derivative as claimed in Claim 11.

Claim 24 (New): A process for preparing a pseudopeptide of formula:



wherein,

- $\text{R}_1$  represents a protecting group for an amine function, or an amino acid or a peptide protected with a protecting group for an amine function,
- $\text{R}_2$  and  $\text{R}_3$ , which may be identical or different, represent the side chain of a natural or unnatural amino acid, the sequence:



also possibly forming the Pro residue,

- $\text{R}_4$  represents a hydrogen atom, and
- $\text{R}_5$  represents a group that can form an *in vivo* hydrolysable phosphinic ester; wherein the phosphinic function of the pseudopeptide obtained via the process of Claim 15 is esterified by coupling with an alcohol of formula  $\text{R}_5\text{OH}$  or by reaction with a halide of formula  $\text{R}_5\text{X}$  in which  $\text{X}$  represents a halogen atom.

UNITED STATES PATENT & TRADEMARK OFFICE  
Washington, D.C. 20231

3/18/05

REQUEST FOR PATENT FEE REFUND

1 Date of Request: 1/18/05

2 Serial/Patent # 10/500891

3 Please refund the following fee(s):		4 PAPER NUMBER	5 DATE FILED	6 AMOUNT
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<input type="checkbox"/>	Issue			\$
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<input type="checkbox"/>	Maintenance			\$
<input type="checkbox"/>	Assignment			\$
<input checked="" type="checkbox"/>	Other <i>Claim fees</i>			\$ 86
		7 TOTAL AMOUNT OF REFUND	\$ 86	
		8 TO BE REFUNDED BY:		
<input checked="" type="checkbox"/> 10 REASON:		Treasury Check		
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<input type="checkbox"/> Duplicate Payment		9 <input type="checkbox"/> 151-0030		
<input type="checkbox"/> No Fee Due (Explanation):				

11 REFUND REQUESTED BY:

TYPED/PRINTED NAME: *Rita White*

TITLE:

*Legal Intern Examiner*

SIGNATURE: *Rita White*

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*7308-9140 ext 23*

OFFICE: *DOEO*

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